

I CLAIM:

1. An improved portable stone cutter comprising:

a base which is of a rectangular frame composed of a pair of longitudinal bars, a pair of transverse bars, a 5 pair of first and second outer longitudinal bars and a pair of sliding bars longitudinally and parallel disposed inside said frame for slidably disposing a working table thereon, wherein said first outer longitudinal bar having a pair of first and second vertical screw holes spacedly formed in a top of front portion and said second outer longitudinal bar having a first, second and third horizontal screw holes spacedly formed in an outer said of front portion for respectively securing an arcuate support arm and a supplementary support arm to commonly support a motor on 10 front end of said frame and having a screw hole abutting a first protrudent screw hole on a lateral side and a second protrudent screw hole on other side;

a guarded circular saw blade disposed on a front portion of said frame connecting to said motor and operated by said 20 motor via a belt and a transmission shaft;

a tool plate movably engaged with one of said outer longitudinal bars;

whereby a large spaced is defined between said arcuate support arm and said supplementary support arm to enable a 25 large sized piece of stone passing through without

obstruction.

2. The portable stone cutter as recited in claim 1, wherein said arcuate support arm has a clamp at lower end for clamping said arcuate support arm to a front portion of said first outer longitudinal bar having a central hole engaged with said first vertical screw hole and rotatably secured by a screw and a crescent slot engaged with said second vertical screw hole and secured by an adjustment lock, a vertical through hole in a top for engaging a tubular pin therein and a vertical screw hole in a top abutting upper end; a U-shaped clamp clamped upper end of said arcuate support arm having a first and a second through holes spacedly formed in upper portion, a third through hole in lower portion aligned with said first though hole of said support arm and secured by a bolt and a nut, said second through hole engaged with vertical screw hole of said support arm and secured by an adjustment lock, and a coupling plate on a lateral side thereof including a through hole engaged with said screw hole of said motor and secured by a knobbed screw and an inner surface secured to said first protrudent screw hole of said motor.

3. The portable stone cutter as recited in claim 1, wherein said supplementary support arm has a L-shaped upper bar including a lateral coupling plate with a through hole therein on a free end of a transverse portion engaged with said

second protrudent screw hole of said motor and secured by a screw, a lower end of a vertical portion integrated with a peak of an A-shaped seat which is composed of a first and a second tilt bars and a reinforcement transverse bar, a small
5 triangular reinforcement plate integrated with inner side of a junction of said L-shaped upper bar and a large triangular reinforcement plate integrated within a junction between L-shaped upper bar and the peak of said A-shaped seat, said first tilt bar having a first inverse U-shaped clamp at
10 free end clamping said second outer longitudinal bar of said base and a lateral coupling plate with a through hole engaged with said first horizontal screw hole and secured by a screw, said second tilt bar having a second inverse U-shaped clamp at free end clamping a front portion adjacent
15 front end of said second outer longitudinal bar and a pair of lateral coupling plates each having a through hole respectively engaged with said second and third horizontal screw holes and secured by a pair of screws.

4. The portable stone cutter as recited in claim 1, wherein
20 said tool plate has a plurality of horizontal protrudent pieces and a plurality of vertical protrudent pieces alternately formed along front edge respectively stopping against upper and inner surface of said first outer longitudinal bar, a pair of introverted hollow interior
25 lateral wall respectively formed under lateral edges each

having a screw hole in front end with a hollow frustum means
on inner side and a pair of bolts screwed into said screw
holes and secured by a pair of nuts, said bolts each having
an adjustable head stopped against an outer surface of said
5 first outer longitudinal bar.

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